LITEON
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External 20x Super AllWrite Drive

Features

LH-20A1PX

★ **External Super AllWrite drive, supports DVD+R / DVD+RW / DVD-R / DVD-RW / DVD+R9/ DVD-R9/ DVD-RAM/DV / CD-R/ CD-RW / CD-ROM format**

★ **Support Double Layer DVD+/- R9 Recording Function**

★ **Portable design, using USB2.0 connection to ensure the best performance**

★ **Plug & Play, and emergency manual eject function is embeded**

★ **SMART-WRITE : Through drive's self-learning function, automatically detect and decide the optimal write strategy of DVD recordable media (DVD+R & DVD-R) for the best write quality.**

★ **SMART-BURN(*1) avoiding Buffer Under Run error, Smartly adjusting writing strategy & running OPC to provide the best burning quality**

★ **SMART-X(*2) function adjusts CD-DA / VCD / DVD data extraction to a fastest allowable speed according to both data request rate from host and disk quality**

★ **ABS system reduce vibration and noise during recording and reading**

★ **Support Fixed Packet, Variable Packet, TAO, SAO, DAO, Random Access time, Incremental, sequential recordi restricted overwrite, Layer Jump recording, Raw Mode Burning & Over-Burn**

★ **DVD read compliant: DVD single/dual layer (PTP/OTP), DVD-R(3.9GB/4.7GB), DVD-R multi-borders, DVD-RAM DVD+R, DVD+R multi-sessions, DVD-RW, and DVD+RW**

★ **CD read compliant: CD-DA, CD-ROM, CD-ROM/XA, Photo-CD, Multi-session, Karaoke-CD, Video-CD, CD-I FMV, CD Extra, CD Plus, CD-R, and CD-RW**

★ **Support both 8cm and 12cm disc of CD and DVD family**

★ **Conform to Orange Book: Part 2 CD-R Volume 1, Part 2 CD-R Volume 2 Multi Speed, Part 3 CD-RW Volume 1 (1x, 2x, and 4x), Part 3 CD-RW Volume2: High Speed, Part 3 CD-RW Volume 3: Ultra Speed**

Specifications

◎ **DVD Family :**

Write	
DVD+R	20X maximum by CAV
DVD-R	20X maximum by CAV
DVD+R9	8X maximum by Zone CLV
DVD-R9	8X maximum by Zone CLV
DVD-RAM	12X maximum by PCAV
ReWrite	
DVD+RW	8X by Z-CLV
DVD-RW	6X by CLV
Read	16X maximum by CAV
Access time	160ms

◎ **CD Family :**

Write	
CD-R	48X by CAV
ReWrite	
CD-RW	32Xmaximum by Z-CLV in UltraSpeed disc
Read	48X maximum by CAV
Access time	160ms

(Maximum transfer rate is limited by PC system or interface speed)

◎ **Buffer Size :** 2MB(Max)

◎ **PC Required :** Pentium 4 1.3GHz or higherr CPU and 128MB or higher RAM are required
HDD must have access time < 20 ms; with a minimum of 650MB free space
9GB free space for creating a DVD image file (9GB for double layer; 5GB for single layer)
In order to achieve 20X DVD±R maximum writing speed,
your system requires Intel ICH8 Family or Nvidia 4 USB Universal Host Controller or higher.
Please check USB controllers for details from the Device Manager of your Windows system.

◎ **Compatibility :** MS-Windows 2000 / XP

◎ **MTBF(Life) :** 70000 POH

◎ **S/N Ration** >75dB

◎ **Environment :**

Operating	5℃ to 35℃; Relative Humidity: 15% to 80%
Non-Operating	-40℃ to 60℃; Relative Humidity: 15% to 95%

◎ **Dimension :** 165(W) x 58(H) x 192(D) mm

◎ **Weight :** 1.3Kg

◎ **Power plug type :** US, EU, UK, and AUS

*1 **SMART-BURN : S**mart **M**onitoring & **A**dapting **R**ecording **T**echnology for **BURN**ing.
*2 **SMART-X : S**mart **M**onitoring & **A**djusting **R**ead-speed **T**echnology for e**X**traction.

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